

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/511,698

Source: PST

Date Processed by STIC: 11/2/04

ENTERED

**CRF Errors Edited by the STIC Systems
Branch**

Serial Number: 10/511,698

CRF Edit Date: 1/2-04

Edited by: TC

Realigned nucleic acid/amino acid numbers/text in cases where the sequence
text "wrapped" to the next line

Corrected the SEQ ID NO. Sequence numbers edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID
NO's edited:

Deleted: invalid beginning/end-of-file text ; page numbers

Inserted mandatory headings/numeric identifiers, specifically:

Moved responses to same line as heading/numeric identifier, specifically:

✓ Other:

for Seq ID # 117, corrected
numeric identifier 24007 to 117.

Revised 09/09/2003

BEST AVAILABLE COPY



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/511,698

DATE: 11/02/2004

TIME: 14:17:02

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\11022004\J511698.raw

```

3 <110> APPLICANT: MTM Laboratories AG
4     von Knebel-Doeberitz, Magnus
5     Gebert, Johannes
6     Linnebacher, Michael
7     Woerner, Stefan
8     Ridder, Ruediger
9     Bork, Peer
10    Yuan, Yan Ping
12 <120> TITLE OF INVENTION: Compounds and Methods Useful for Detection and Treatment of
13    Cancer
15 <130> FILE REFERENCE: 03528.0145.00US00
C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/511,698
17 <141> CURRENT FILING DATE: 2004-10-14
19 <150> PRIOR APPLICATION NUMBER: PCT/EP 03/04083
20 <151> PRIOR FILING DATE: 2003-04-17
22 <150> PRIOR APPLICATION NUMBER: EP 02 008 773.0
23 <151> PRIOR FILING DATE: 2002-04-18
25 <150> PRIOR APPLICATION NUMBER: EP 02 008 771.4
26 <151> PRIOR FILING DATE: 2002-04-18
28 <150> PRIOR APPLICATION NUMBER: EP 02 008 774.8
29 <151> PRIOR FILING DATE: 2002-04-18
31 <160> NUMBER OF SEQ ID NOS: 117
33 <170> SOFTWARE: PatentIn version 3.2
37 <210> SEQ ID NO: 1
38 <211> LENGTH: 320
39 <212> TYPE: PRT
40 <213> ORGANISM: Artificial Sequence
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43 <223> OTHER INFORMATION: Description of Artificial Sequence: polypeptides
44     encoded by genes with coding microsatellites
46 <400> SEQUENCE: 1
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48   1           5           10           15
50 Ile Tyr Gly Leu Leu Leu Asn Ala Ser Pro His Leu Asp Lys Thr Ser
51           20           25           30
53 Trp Asn Ala Leu Pro Pro Gln Pro Leu Ala Phe Ser Glu Val Glu Arg
54           35           40           45
56 Ile Asn Lys Asn Ile Arg Thr Ser Ile Ile Asp Ala Val Glu Leu Ala
57           50           55           60
59 Lys Asp His Ser Asp Leu Ser Arg Leu Thr Glu Leu Ser Leu Arg Arg
60   65           70           75           80
62 Arg Gln Met Leu Leu Glu Thr Leu Lys Val Lys Gln Thr Ile Leu
63           85           90           95

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65 Glu Pro Ile Pro Thr Ser Leu Lys Leu Pro Ile Ala Val Ser Cys Tyr
66          100          105          110
68 Trp Leu Gln His Thr Glu Thr Lys Ala Lys Leu His His Leu Gln Ser
69          115          120          125
71 Leu Leu Leu Thr Met Leu Val Gly Pro Leu Ile Ala Ile Ile Asn Ser
72          130          135          140
74 Pro Gly Lys Glu Glu Leu Gln Glu Asp Gly Ala Lys Met Leu Tyr Ala
75 145          150          155          160
77 Glu Phe Gln Arg Val Lys Ala Gln Thr Arg Leu Gly Thr Arg Leu Asp
78          165          170          175
80 Leu Asp Thr Ala His Ile Phe Cys Gln Trp Gln Ser Cys Leu Gln Met
81          180          185          190
83 Gly Met Tyr Leu Asn Gln Leu Leu Ser Thr Pro Leu Pro Glu Pro Asp
84          195          200          205
86 Leu Thr Arg Leu Tyr Ser Gly Ser Leu Val His Gly Leu Cys Gln Gln
87          210          215          220
89 Leu Leu Ala Ser Thr Ser Val Glu Ser Leu Leu Ser Ile Cys Pro Glu
90 225          230          235          240
92 Ala Lys Gln Leu Tyr Glu Tyr Leu Phe Asn Ala Thr Arg Ser Tyr Ala
93          245          250          255
95 Pro Ala Glu Ile Phe Leu Pro Lys Gly Arg Ser Asn Ser Lys Lys Lys
96          260          265          270
98 Arg Gln Lys Lys Gln Asn Thr Ser Cys Ser Lys Asn Arg Gly Arg Thr
99          275          280          285
101 Thr Ala His Thr Lys Cys Trp Tyr Glu Gly Asn Asn Arg Phe Gly Leu
102          290          295          300
104 Leu Met Val Glu Asn Leu Glu Glu His Ser Glu Ala Ser Asn Ile Glu
105 305          310          315          320
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113 <212> TYPE: PRT
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116 <220> FEATURE:
117 <223> OTHER INFORMATION: Description of Artificial Sequence: polypeptides
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120 <400> SEQUENCE: 2
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122  1          5          10          15
124 Ile Tyr Gly Leu Leu Leu Asn Ala Ser Pro His Leu Asp Lys Thr Ser
125          20          25          30
127 Trp Asn Ala Leu Pro Pro Gln Pro Leu Ala Phe Ser Glu Val Glu Arg
128          35          40          45
130 Ile Asn Lys Asn Ile Arg Thr Ser Ile Ile Asp Ala Val Glu Leu Ala
131          50          55          60
133 Lys Asp His Ser Asp Leu Ser Arg Leu Thr Glu Leu Ser Leu Arg Arg
134 65          70          75          80
136 Arg Gln Met Leu Leu Glu Thr Leu Lys Val Lys Gln Thr Ile Leu
137          85          90          95
139 Glu Pro Ile Pro Thr Ser Leu Lys Leu Pro Ile Ala Val Ser Cys Tyr

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140          100          105          110
142 Trp Leu Gln His Thr Glu Thr Lys Ala Lys Leu His His Leu Gln Ser
143          115          120          125
145 Leu Leu Leu Thr Met Leu Val Gly Pro Leu Ile Ala Ile Ile Asn Ser
146          130          135          140
148 Pro Gly Lys Glu Glu Leu Gln Glu Asp Gly Ala Lys Met Leu Tyr Ala
149 145          150          155          160
151 Glu Phe Gln Arg Val Lys Ala Gln Thr Arg Leu Gly Thr Arg Leu Asp
152          165          170          175
154 Leu Asp Thr Ala His Ile Phe Cys Gln Trp Gln Ser Cys Leu Gln Met
155          180          185          190
157 Gly Met Tyr Leu Asn Gln Leu Leu Ser Thr Pro Leu Pro Glu Pro Asp
158          195          200          205
160 Leu Thr Arg Leu Tyr Ser Gly Ser Leu Val His Gly Leu Cys Gln Gln
161          210          215          220
163 Leu Leu Ala Ser Thr Ser Val Glu Ser Leu Leu Ser Ile Cys Pro Glu
164 225          230          235          240
166 Ala Lys Gln Leu Tyr Glu Tyr Leu Phe Asn Ala Thr Arg Ser Tyr Ala
167          245          250          255
169 Pro Ala Glu Ile Phe Leu Pro Lys Gly Arg Ser Asn Ser Lys Lys Lys
170          260          265          270
172 Gly Arg Arg Asn Arg Ile Pro Ala Val Leu Arg Thr Glu Gly Glu Pro
173          275          280          285
175 Leu His Thr Pro Ser Val Gly Met Arg Glu Thr Thr Gly Leu Gly Cys
176          290          295          300
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184 <212> TYPE: PRT
185 <213> ORGANISM: Artificial Sequence
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188 <223> OTHER INFORMATION: Description of Artificial Sequence: polypeptides
189 encoded by genes with coding microsatellites
191 <400> SEQUENCE: 3
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193 1 5 10 15
195 Ile Tyr Gly Leu Leu Leu Asn Ala Ser Pro His Leu Asp Lys Thr Ser
196 20 25 30
198 Trp Asn Ala Leu Pro Pro Gln Pro Leu Ala Phe Ser Glu Val Glu Arg
199 35 40 45
201 Ile Asn Lys Asn Ile Arg Thr Ser Ile Ile Asp Ala Val Glu Leu Ala
202 50 55 60
204 Lys Asp His Ser Asp Leu Ser Arg Leu Thr Glu Leu Ser Leu Arg Arg
205 65 70 75 80
207 Arg Gln Met Leu Leu Leu Glu Thr Leu Lys Val Lys Gln Thr Ile Leu
208 85 90 95
210 Glu Pro Ile Pro Thr Ser Leu Lys Leu Pro Ile Ala Val Ser Cys Tyr
211 100 105 110
213 Trp Leu Gln His Thr Glu Thr Lys Ala Lys Leu His His Leu Gln Ser
214 115 120 125

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216 Leu Leu Leu Thr Met Leu Val Gly Pro Leu Ile Ala Ile Ile Asn Ser
217      130      135      140
219 Pro Gly Lys Glu Glu Leu Gln Glu Asp Gly Ala Lys Met Leu Tyr Ala
220 145      150      155      160
222 Glu Phe Gln Arg Val Lys Ala Gln Thr Arg Leu Gly Thr Arg Leu Asp
223      165      170      175
225 Leu Asp Thr Ala His Ile Phe Cys Gln Trp Gln Ser Cys Leu Gln Met
226      180      185      190
228 Gly Met Tyr Leu Asn Gln Leu Leu Ser Thr Pro Leu Pro Glu Pro Asp
229      195      200      205
231 Leu Thr Arg Leu Tyr Ser Gly Ser Leu Val His Gly Leu Cys Gln Gln
232      210      215      220
234 Leu Leu Ala Ser Thr Ser Val Glu Ser Leu Leu Ser Ile Cys Pro Glu
235 225      230      235      240
237 Ala Lys Gln Leu Tyr Glu Tyr Leu Phe Asn Ala Thr Arg Ser Tyr Ala
238      245      250      255
240 Pro Ala Glu Ile Phe Leu Pro Lys Gly Arg Ser Asn Ser Lys Lys Lys
241      260      265      270
243 Lys Ala Glu Glu Thr Glu Tyr Gln Leu Phe
244      275      280
247 <210> SEQ ID NO: 4
248 <211> LENGTH: 139
249 <212> TYPE: PRT
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253 <223> OTHER INFORMATION: Description of Artificial Sequence: polypeptides
254      encoded by genes with coding microsatellites
256 <400> SEQUENCE: 4
257 Met Gly His Pro Arg Ala Ile Gln Pro Ser Val Phe Phe Ser Pro Tyr
258 1      5      10      15
260 Asp Val His Phe Leu Leu Tyr Pro Ile Arg Cys Pro Tyr Leu Lys Ile
261      20      25      30
263 Gly Arg Phe His Ile Lys Leu Lys Gly Leu His Phe Leu Phe Ser Phe
264      35      40      45
266 Leu Phe Phe Phe Phe Glu Thr Gln Ser His Ser Val Thr Arg Leu Glu
267      50      55      60
269 Cys Ser Gly Thr Ile Ser Ala His Cys Asn Leu Cys Leu Pro Gly Ser
270 65      70      75      80
272 Ser Asn Ser Pro Ala Ser Ala Ser Arg Val Ala Gly Thr Ala Gly Thr
273      85      90      95
275 Cys Arg Arg Ala Gln Leu Ile Phe Val Phe Leu Ala Glu Met Gly Phe
276      100      105      110
278 His His Val Gly Arg Asp Gly Leu Asp Leu Asn Leu Val Ile His Pro
279      115      120      125
281 Pro Arg Ser Pro Lys Ala Leu Gly Leu Gln Ala
282      130      135
285 <210> SEQ ID NO: 5
286 <211> LENGTH: 101
287 <212> TYPE: PRT

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DATE: 11/02/2004

PATENT APPLICATION: US/10/511,698

TIME: 14:17:02

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\11022004\J511698.raw

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288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: Description of Artificial Sequence: polypeptides
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294 <400> SEQUENCE: 5
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296   1           5           10           15
298 Asp Val His Phe Leu Leu Tyr Pro Ile Arg Cys Pro Tyr Leu Lys Ile
299           20           25           30
301 Gly Arg Phe His Ile Lys Leu Lys Gly Leu His Phe Leu Phe Ser Phe
302           35           40           45
304 Leu Phe Phe Phe Leu Arg His Ser Leu Thr Leu Ser Pro Gly Trp Ser
305           50           55           60
307 Ala Val Ala Arg Ser Arg Leu Thr Ala Thr Ser Ala Ser Gln Val Gln
308   65           70           75           80
310 Val Ile Leu Leu Pro Gln Pro Pro Glu Trp Leu Gly Leu Gln Ala Arg
311           85           90           95
313 Ala Ala Ala Pro Ser
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319 <212> TYPE: PRT
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326 <400> SEQUENCE: 6
327 Met Gly His Pro Arg Ala Ile Gln Pro Ser Val Phe Phe Ser Pro Tyr
328   1           5           10           15
330 Asp Val His Phe Leu Leu Tyr Pro Ile Arg Cys Pro Tyr Leu Lys Ile
331           20           25           30
333 Gly Arg Phe His Ile Lys Leu Lys Gly Leu His Phe Leu Phe Ser Phe
334           35           40           45
336 Leu Phe Phe Phe Phe
337           50
340 <210> SEQ ID NO: 7
341 <211> LENGTH: 209
342 <212> TYPE: PRT
343 <213> ORGANISM: Artificial Sequence
345 <220> FEATURE:
346 <223> OTHER INFORMATION: Description of Artificial Sequence: polypeptides
347     encoded by genes with coding microsatellites
349 <400> SEQUENCE: 7
350 Met Gln Arg Arg Leu Val Gln Gln Trp Ser Val Ala Val Phe Leu Leu
351   1           5           10           15
353 Ser Tyr Ala Val Pro Ser Cys Gly Arg Ser Val Glu Gly Leu Ser Arg
354           20           25           30
356 Arg Leu Lys Arg Ala Val Ser Glu His Gln Leu Leu His Asp Lys Gly
357           35           40           45

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/511,698

DATE: 11/02/2004

TIME: 14:17:03

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\11022004\J511698.raw

L:17 M:270 C: Current Application Number differs, Missing <140> CURRENT APPLICATION NUMBER: is Added.